

Contractor shall complete Street Asphaltic Concrete Maintenance work based on standards and specifications published by the Maricopa Association of Governments (MAG) which is here within incorporated by reference and made apart hereof.

1 MASTERSEAL™ MTR: 1,673,945 SQUARE YARDS

DESCRIPTION: The City of Surprise is requiring MasterSeal™ MTR, an asphalt emulsion sealer modified with terminal blended whole scrap tire rubber. It provides weather and slip resistance to the applied surface. MasterSeal™ MTR protects and extends the life of the asphalt surface by sealing in and locking in the existing asphalt's oils and aggregate.

1.1 APPLICATION: MasterSeal™ MTR is to be applied with a standard sealant tank sprayer and maneuvered by squeegee to cover an area. No less than two (2) complete surface coats are to be applied to the entire surface area, including but not limited to, edges and driveway approaches. The work will comply with MAG Standards. Contractor shall provide all traffic control necessary to accomplish required work.

1.2 SURFACE PREPARATION: In urban areas, the surface shall be cleaned with a self-propelled pick-up sweeper. In rural areas, power brooms may be used. When necessary, cleaning shall be supplemented by hand brooms. MasterSeal™ MTR shall not be applied until a COS Inspection of the surface has determined that it is ready and suitable.

1.3 EQUIPMENT AND DISTRIBUTION RATIO: The equipment used by the contractor in the application of the MasterSeal™ MTR shall include a self contained tank and sprayer wand and distributed evenly in two (2) complete coats at 0.18 Gallons per Square Yard which equals to approximately 264,322.5 Gallons to be applied on selected and scheduled COS roadway surfaces in FY16.

2 ASPHALT CRACK SEALING: 1,572,214 SQUARE YARDS

GENERAL REQUIREMENTS: Prior to Pavement Sealing, Crack Sealing shall consist of inspecting the asphalt pavement for definitive cracks, cleaning out the selected cracks requiring material, and applying a hot pre-mixed asphalt rubber sealant. The work will comply with MAG Standards. Contractor shall provide all traffic control necessary to accomplish required work. Asphalt Crack Sealing is mandatory prior to installing any and all roadway surface sealants.

2.1 APPLICATION: Contractor shall seal all cracks with an opening of 1/4" or greater. Prior to applying the sealant, the cracks shall be thoroughly cleaned

and loose of particles, dust, and other deleterious substances by means of using a forced air (65 psi or greater) with a downward blast into the crack and a vacuum attachment to vacuum the debris released. The material shall be vacuumed and contained to prevent it from getting into the atmosphere. All cracks shall be cleaned to a depth of 1/2" to 1".

2.2 CRACK SEALANT SHALL BE A HOT-APPLIED POLY FLEX: Contractor shall place sealant so as to completely fill the crack and for a lap of approximately 1" on each side. Thickness of the lap shall not exceed 1/16 inch. Immediately after the application contractor shall use a rubber V squeegee to force the material into the crack and for the lap. Blotter material may be required to prevent asphalt rubber bellied and/or pickup of sealant by vehicular traffic. Contractor shall install blotter material of a type acceptable to and at the direction of the COS Inspector/Project Manager (no cement powder shall be acceptable).

2.3 Site Maintenance and Clean-up: Within two (2) days after the work has been completed on residential streets, contractor shall take caution to make sure the site is left clean and free of excess material, debris, etc. The streets, gutters, sidewalks and driveways shall be cleaned before the job is considered complete. Cleaning of the streets shall be by vacuum or regenerative sweeper. Contractor shall be required to clean the streets to the satisfaction of the COS Inspector/Project Manager. Contractor shall be responsible for disposal of all debris.

2.4 EQUIPMENT: The equipment used by the contractor in the application of the asphalt crack sealant shall have a mixing system in the material vat in order to maintain a consistent, uniform, homogeneous mixture throughout the crack sealing operation. The unit shall heat the asphalt rubber material by means of an indirect heat transfer median for adequate material temperature control. The equipment shall provide a continuous supply so that operations may proceed without delays. Contractor shall apply the material under pressure with a hose and wand assembly. The contract COS Inspector/Project Manager prior to use shall approve any equipment designated for use by the contractor.

3 TRAFFIC CONTROL: 1,673,945 SQUARE YARDS

3.1 Contractor shall adhere to all City, State, and Federal traffic and safety guidelines, **City Traffic Barricade design Manual #7, and COS Detail No. 2-13**. Contractor shall submit all traffic control plans to City Traffic Engineer(s) for review and approval a minimum of four (4) business days prior to commencing any work. Contact Ron Gaffey at 623-222-1734.

4 PAVEMENT STRIPING: 119,000 LF

4.1 Contractor is responsible for re-striping areas covered by the new sealant installation, like in kind, and shall provide the City of Surprise with striping plans including measurements, before the start of the project. All striping shall follow the latest version of the City Standard Details and specifications manual. No Striping shall begin until approved by the City of Surprise Traffic Engineer and COS Inspector/Project Manager.

5 BRAND NAME ONLY

5.1 The material in this solicitation has been identified as a brand name only and will satisfy the City's needs. Only bids for the brand described herein shall be considered.

6 PERMITS: REQUIRED

6.1 Requirements: Work Permit(s) is required. Contact Joe Garza at 623-222-6141 for all COS Work Permits.

7 DUST CONTROL: REQUIRED

7.1 Requirements: Contractor shall keep suitable equipment on hand at the job site for maintaining dust control and shall employ appropriate equipment for that purpose, in accordance with the requirements of the "Maricopa County Environmental Services Department of Air Pollution Control Regulations". Contractor shall be responsible for obtaining an Air Quality Permit from Maricopa County prior to starting the work.

8 CLEAN UP: REQUIRED

8.1 Contractor shall be responsible for keeping the sidewalks, streets, alleys, and adjacent areas around the site free from materials such as debris, obstacles, mud, dirt, etc. Contractor shall immediately and continuously clean up any and all mud or dirt tracked onto streets or sidewalks by construction traffic. Contractor must maintain MCAQD compliance. Contractor is also responsible for cleaning up any and all over spray, spills, and/or leaking of the new sealant material on asphalt, concrete, walkways, buildings, right of way areas, and/or private property, at the Contractors expense.

9 NOTIFICATION OF THE PUBLIC: REQUIRED

9.1 NOTICE AND CONTACT REQUIREMENTS: Contractor shall notify all affected citizens and/or businesses by door flyer 48 hours prior to work beginning and include any and all pertinent information, description of work, and time, schedules and contractors name with a 24-hour contact number(s). The flyer information shall be submitted to the contract Project Manager.

10 MEASUREMENT AND PAYMENT: NOTE

10.1 PRE-WORK: All work to be done shall be determined and measured by the Contractor in preparation to submit a “proposal quote” including the description of work, unit cost, total, and required information for COS Approval. Measurement shall be verified by COS.

10.2 DURING-WORK: All work outlined, measurements, and unit cost shall not change or deviate from the amounts originally approved by COS, unless documented reason has been submitted to COS and COS approval and permission has been granted to the Contractor. Measurement shall be verified by COS.

10.3 POST-WORK: All work completed satisfactorily and passing COS inspection shall be determined, measured, and totaled with the COS accepted and approved unit cost by the Contractor in preparation for invoicing. Measurement shall be verified by COS Project Manager.

11 PRE-MAINTENANCE PROJECT MEETING

11.1 A Pre-Maintenance Meeting is mandatory and will be scheduled by the Project Manager. The Contractor, including all approved and eligible Sub-Contractors, will be required to be in attendance and provide detailed information on the project, contract, Safety and Hazardous Chemicals Communication program, work permit, work schedule (labeled maps included), traffic control, material mix designs, tool box meetings, staging site, water, work and product warranties, resident notification, Contractor contact information, and developing and providing a complete job record for this project duration.

12 FY16 PAVEMENT PRESERVATION PROGRAM – MASTERSEAL™ LOCATIONS:



**PUBLIC WORKS DEPARTMENT
PAVEMENT PRESERVATION
SCOPE OF WORK: PAVEMENT SEALING**

FY16 COS PPP - MASTER SEAL (Crackfill & Striping) ONLY				OCI	LF	W	SY
Residential	Summer Field at Litchfield	Subdivision		67.5	4851.4	28	18,976.0
Residential	Bell West Ranch 1A	Subdivision		69.1	11788.6	32	41,915.0
Residential	Canyon Ridge West P5	Subdivision		73.8	9004.1	28	28,012.6
Residential	SCG - CAPITAN	Subdivision	Sun City Grand	76.5	23682.0	28	84,204.0
Residential	SCG - Coronado	Subdivision	Sun City Grand	74.2	13957.0	28	49,626.0
Residential	SCG - Durango	Subdivision	Sun City Grand	77.5	8170.0	28	29,048.0
Residential	SCG - Escalante	Subdivision	Sun City Grand	76.0	10650.0	28	37,867.0
Residential	SCG - Esperanza	Subdivision	Sun City Grand	75.6	5545.0	28	19,715.0
Residential	SCG - Hacienda	Subdivision	Sun City Grand	72.5	5371.0	28	19,107.0
Residential	SCG - Palm View	Subdivision	Sun City Grand	67.8	4718.0	28	16,775.0
Residential	SCG - Patagonia	Subdivision	Sun City Grand	71.7	5387.0	28	19,155.0
Residential	SCG - Rincon	Subdivision	Sun City Grand	77.3	16553.0	28	58,854.0
Residential	SCG - Taos	Subdivision	Sun City Grand	77.5	5322.0	28	18,976.0
Residential	SCG - SKYVIEW	Subdivision	Sun City Grand	71.0	14037.4	28	46,791.2
Residential	SCG - The Summit	Subdivision	Sun City Grand	74.0	5551.7	28	18,505.8
Residential	SCG - Clearview II	Subdivision	Sun City Grand	65.7	4367.7	28	14,559.1
Residential	SCG - Quail run	Subdivision	Sun City Grand	69.8	13030.2	28	43,433.9
Residential	SCG - Desert Trails I	Subdivision	Sun City Grand	67.5	12365.6	28	41,218.6
Residential	SCG - The Peak	Subdivision	Sun City Grand	70.2	4955.1	28	16,517.1
Residential	SCG - SUMMERWIND	Subdivision	Sun City Grand	63.4	8523.2	28	28,410.7
Residential	SCG - Starry Night	Subdivision	Sun City Grand	65.4	4794.4	28	15,981.4
Residential	SCG - Cholla Ridge	Subdivision	Sun City Grand	67.1	10522.0	28	35,073.5
Residential	SCG - Ironwood	Subdivision	Sun City Grand	70.7	12172.5	28	36,757.5
Residential	SCG - The Point	Subdivision	Sun City Grand	69.3	5208.0	28	17,360.1
Residential	SCG - Desert Sage II	Subdivision	Sun City Grand	72.9	18153.6	28	60,512.1



**PUBLIC WORKS DEPARTMENT
PAVEMENT PRESERVATION
SCOPE OF WORK: PAVEMENT SEALING**

Residential	SCG - MOUNTAIN VIEW I	Subdivision	Sun City Grand	75.8	6780.0	28	21,093.3
Residential	KINGSWOOD PARKE - PARCEL 4 & 5	Subdivision		62.0	8283.6	28	25,771.2
Residential	Kingswood Parke Parcel 7, 8 & 9	Subdivision		64.0	9804.0	28	30,501.3
Residential	KINGSWOOD PARKE - PARCEL 15	Subdivision		67.0	860.3	28	2,676.5
Residential	KINGSWOOD PARKE - PARCEL 16	Subdivision		73.0	6851.1	28	21,314.4
Residential	Mountain Vista Parcel 4	Subdivision		69.8	4796.1	28	14,921.1
Residential	Mountain Vista Parcel 9	Subdivision		69.8	1975.0	28	6,144.5
Residential	Mountain Vista Parcel 12	Subdivision		69.8	4268.0	28	13,278.2
Residential	Mountain Vista Ranch parcel 14	Subdivision		69.8	5306.0	28	16,507.6
Residential	Mountain Vista Ranch parcel 15	Subdivision		69.8	4710.0	28	14,653.3
Residential	SCG - Model Park - Lago Vista I & II	Subdivision	Sun City Grand	69.6	8178.8	28	25445.2
Residential	BELL WEST RANCH - PARCEL 2	Subdivision					38668.1
Residential	BELL WEST RANCH - PARCEL 3	Subdivision					32690.6
Residential	KENLY FARMS PARCEL 1	Subdivision		74.9	13187.5	28	41027.8
Residential	Desert Oasis Parcel L11	Subdivision	Crackfill Complete	78.9	3280.3	24	8747.3
Residential	Desert Oasis Parcel L5B	Subdivision	Crackfill Complete	80.4	5005.7	24	13348.5
Residential	Desert Oasis Parcel L5A	Subdivision	Crackfill Complete	78.6	4078.3	24	10875.4
Residential	Desert Oasis Parcel L13A	Subdivision	Crackfill Complete	77.8	5773.6	24	15396.2
Residential	Desert Oasis Parcel L14A	Subdivision	Crackfill Complete	81.3	4357.7	24	11620.5
Residential	Desert Oasis Parcel L14B	Subdivision	Crackfill Complete	76.8	2875.2	24	7667.2
Residential	Surprise Farms- PH 1A North P 3	Subdivision		74.7	17792.5	28	55354.5
Residential	Surprise Farms - PH 1BSouth P 11	Subdivision		75.9	26219.0	28	81570.3
Residential	Surprise Farms - PH 1B North A 14	Subdivision		75.1	10268.0	28	31945.0
Residential	Surprise Farms- PH 1B North P 16	Subdivision		74.0	19965.6	28	62115.3
Residential	Surprise Farms - PH 1B South P 10	Subdivision		74.0	22639.4	28	70433.7
Residential	SURPRISE FARMS - PH 2 PARCEL 1	Subdivision		79.5	4379.0	28	13623.6
Residential	SURPRISE FARMS - PH 2 PARCEL 2	Subdivision		80.7	7853.7	28	24433.7
Residential	SURPRISE FARMS - PH 2	Subdivision		80.4	7795.5	28	24252.7



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PAVEMENT PRESERVATION
SCOPE OF WORK: PAVEMENT SEALING**

	PARCEL 3						
Residential	SURPRISE FARMS - PH 2 PARCEL 4	Subdivision		82.8	7761.6	28	24147.2
Residential	SURPRISE FARMS - PH 2 PARCEL 5	Subdivision		76.8	4542.6	28	14132.5
Residential	SURPRISE FARMS - PH 2 PARCEL 6	Subdivision		80.1	4125.6	28	12835.2
Residential	SURPRISE FARMS - PH 3 PARCEL 6	Subdivision		84.0	679.0	28	2112.5
Residential	SURPRISE FARMS - WESTERN PEAKS	Subdivision		0.0	0.0	0	0.0
Residential	SURPRISE FARMS COMMON	Subdivision		71.9	307.2	28	955.7
Residential	ROSEVIEW - UNIT 4	Subdivision		61.7	6376.7	28	19838.6
Residential	ROSEVIEW - UNIT 3	Subdivision		68.0	6740.6	33	24715.6
Residential	ROSEVIEW - UNIT 5A	Subdivision		62.3	1136.4	33	4166.9
Residential	ROSEVIEW - UNIT 6	Subdivision		63.3	4803.4	33	17612.4
TOTAL SY							1,673,945.1